2N2906 2N2906A

2N2907 2N2907A

PNP SILICON TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N2906, 2N2907 series types are silicon PNP epitaxial planar transistors designed for small signal, general purpose switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	2N2906 2N2907	2N2906A 2N2907A	UNITS
Collector-Base Voltage	V _{CBO}	60	60	V
Collector-Emitter Voltage	V_{CEO}	40	60	V
Emitter-Base Voltage	V_{EBO}	5	5.0	V
Continuous Collector Current	IC	6	00	mA
Power Dissipation	P_{D}	4	00	mW
Power Dissipation (T _C =25°C)	P_{D}	1	.8	W
Operating and Storage Junction Temperature	Т _Ј , Т _{stg}	-65 to +200		°C
Thermal Resistance	$\Theta_{\sf JA}$	4	38	°C/W
Thermal Resistance	Θ JC	Ş	97	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

LLLCTRICAL	- CHARACTERISTICS. (TA-25 C unless of	LITE WISE	Hoteu)			
		2N2906		2N2906A		
		2N2907		2N2907A		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
ICBO	V _{CB} =50V	-	20	-	10	nA
I _{CBO}	V _{CB} =50V, T _A =150°C	-	20	-	10	μΑ
ICEV	V_{CE} =30V, V_{EB} =0.5V	-	50	-	50	nA
BVCBO	I _C =10μA	60	-	60	-	V
BVCEO	I _C =10mA	40	-	60	-	V
BVEBO	I _E =10μA	5.0	-	5.0	-	V
V _{CE(SAT)}	I _C =150mA, I _B =15mA	-	0.4	-	0.4	V
V _{CE} (SAT)	I _C =500mA, I _B =50mA	-	1.6	-	1.6	V
V _{BE} (SAT)	I _C =150mA, I _B =15mA	-	1.3	-	1.3	V
V _{BE} (SAT)	I _C =500mA, I _B =50mA	-	2.6	-	2.6	V
fT	V_{CE} =20V, I_{C} =50mA, f=100MHz	200	-	200	-	MHz
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz	-	8.0	-	8.0	pF
C _{ib}	V_{EB} =2.0V, I_{C} =0, f=1.0MHz	-	30	-	30	pF
^t on	V _{CC} =30V, I _C =150mA, I _{B1} =15mA	-	45	-	45	ns
^t off	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA	-	100	-	100	ns

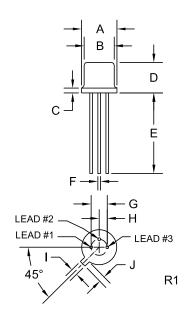
2N2906 2N2906A 2N2907 2N2907A





ELECTRICAL CHARACTERISTICS - Continued: (T _A =25°C)		2N2906 2N2906A		2N2907 2N2907A	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX
hFE	V _{CE} =10V, I _C =0.1mA (2N2906, 2N2907)	20	-	35	-
hFE	V _{CE} =10V, I _C =0.1mA (2N2906A, 2N2907A)	40	-	75	-
hFE	V _{CE} =10V, I _C =1.0mA (2N2906, 2N2907)	25	-	50	-
hFE	V _{CE} =10V, I _C =1.0mA (2N2906A, 2N2907A)	40	-	100	-
hFE	V _{CE} =10V, I _C =10mA (2N2906, 2N2907)	35	-	75	-
hFE	V _{CE} =10V, I _C =10mA (2N2906A, 2N2907A)	40	-	100	-
hFE	V _{CE} =10V, I _C =150mA	40	120	100	300
hFE	V _{CE} =10V, I _C =500mA (2N2906, 2N2907)	20	-	30	-
hFE	V _{CE} =10V, I _C =500mA (2N2906A, 2N2907A)	40	-	50	-

TO-18 CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INC	HES	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A (DIA)	0.209	0.230	5.31	5.84	
B (DIA)	0.178	0.195	4.52	4.95	
С	-	0.030	-	0.76	
D	0.170	0.210	4.32	5.33	
E	0.500	-	12.70	-	
F (DIA)	0.016	0.019	0.41	0.48	
G (DIA)	0.100		2.54		
Н	0.050		1.27		
I	0.036	0.046	0.91	1.17	
J	0.028	0.048	0.71	1.22	
TO 10 (DEV): D1)					

TO-18 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING: FULL PART NUMBER

R4 (30-January 2012)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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